Index of Claims

| Application/Control No | Α | pp | lic | atio | on/ | Con | itro | No |
|------------------------|---|----|-----|------|-----|-----|------|----|
|------------------------|---|----|-----|------|-----|-----|------|----|

10/648,687

Examiner

**Christine Sung** 

Applicant(s)/Patent under Reexamination

**NELSON ET AL.** 

Art Unit

2884

| <b>↓</b> | Rejected |
|----------|----------|
|          | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| - | N | Non-Elected  |
|---|---|--------------|
|   | 1 | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Cla      | aim      |                |          | _        | _ (                                 | Date  | e        | _          |          |  | ]   | Cla      | im       |               |        |          | _[           | Date  | 9        |  |              |                 |
|----------|----------|----------------|----------|----------|-------------------------------------|---|----------|------------|----------|--|-----|----------|----------|---------------|--------|----------|--------------|---|----------|--|--------------|-----------------|
| Final    | Original | 2/2/05         | 2/26/06  | 10/26/06 |                                     |   |          |            |          |  |     | Final    | Original |               |        |          |              |   |          |  |              |                 |
| $\vdash$ | 1        | 1              | 1        | 1        | $\vdash$                            | $\vdash$  | ┢        | $\vdash$   | $\vdash$ | $\vdash$                               | 1   |          | 51       |               | -      |          |              | ┢╌  | $\vdash$ |  | Н            | H               |
|          | 2        | Ì              | Ì        | Ì        | $\vdash$                            |   | $\vdash$ | 1          | 1-       |  | i   | -        | 52       |               |        |          | _            | H   | $\vdash$ | _                                      |              | Н               |
|          | 3        | 1              | 1        | V        | H                                   |   |          |            |          | _                                      | 1   |          | 53       | $\Box$        |        |          | _            | Н   | $\vdash$ | $\vdash$                               |              | П               |
|          | 4        | 1              | 1        |          |                                     |   |          |            | ·        |  | 1   |          | 54       | Ħ             |        |          | $\Box$       |   | $\vdash$ |  |              | П               |
| _        | 5        | 1              | 1        | 7        | $\vdash$                            |   |          |            |          |  | 1   |          | 55       |               |        |          |              |   |          |  |              | П               |
|          | 6        | 1              | 1        | 1        |                                     |   |          |            |          |  | 1   |          | 56       | П             |        |          |              |   |          |  |              | П               |
|          | 7        | 1              | 1        | V        |                                     |   |          |            |          |  | 1   |          | 57       | П             | $\neg$ |          |              |   | Г        |  |              |                 |
|          | 8        | 1              | 1        | 1        |                                     |   |          |            |          |  | 1   |          | 58       | П             |        |          |              |   |          |  |              |                 |
|          | 9        | 1              | 1        | 1        |                                     |   |          |            |          |  |     |          | 59       |               |        |          |              |   |          |  |              |                 |
|          | 10       | 1              | 1        | ٧        |                                     |   |          |            |          |  | ]   |          | 60       |               |        |          |              |   |          |  |              |                 |
|          | 11       | √_             | 1        |          |                                     |   |          |            |          |  |     |          | 61       |               |        |          |              |   |          |  |              |                 |
|          | 12       | 1              | 7        | 7        |                                     |   |          |            |          |  |     |          | 62       |               |        |          |              |   |          |  |              |                 |
|          | 13       | 1              | 7        | 7        |                                     |   | Ĺ        |            |          |  |     |          | 63       | Ш             |        |          |              |   |          |  |              | Ш               |
|          | 14       | 1              | 1        |          |                                     |   |          | L          |          | L                                      |     |          | 64       |               |        |          | L            | <u> </u>  |          | L                                      |              | Ш               |
| <u></u>  | 15       | 1              | 1        | 1        | 匚                                   | L_  |          | <u> </u>   |          |  |     |          | 65       | Щ             | _      |          | _            | $ldsymbol{le}}}}}}$ |          | L                                      |              | Щ               |
|          | 16       | 1              | 1        | 1        | ╙                                   | $ldsymbol{ld}}}}}}$ | _        | L          | ╙        | _                                      |     |          | 66       | Ш             |        |          |              | <u> </u>  |          |  |              | Ш               |
| ·        | 17       | 1              | 1        | <u> </u> | L                                   | L   | L        | L          | <u> </u> | _                                      |     |          | 67       |               | _      |          |              | <u> </u>  | _        | <u> </u>                               | <u> </u>     | Ш               |
| <u> </u> | 18       | 1              | 1        | 1        | _                                   | L   | _        | <u> </u>   | ļ        | ļ                                      |     |          | 68       |               | -      |          | ╙            | ļ.,   | _        |  | _            |                 |
| <u></u>  | 19       | 1              | 1        | 1        | <u> </u>                            |   |          | ┞          |          | L                                      | ļ   | <u> </u> | 69       | Н             |        |          | <u> </u>     | _   | _        | <u> </u>                               |              | Н               |
| <u></u>  | 20       | 1              | 1        | 1        | <u> </u>                            |   | _        | <b> </b> _ | ┞        | <u> </u>                               | ł   |          | 70       | Щ             |        |          | <u> </u>     | <u> </u>  | <u> </u> | ⊢                                      | Ŀ            |                 |
| <u> </u> | 21       | 1              | 1        | V        | _                                   |   | _        | ļ          | ▙        | <u> </u>                               | 1   |          | 71       | Ш             | _      |          | <u> </u>     | <u> </u>  | <u> </u> | ┡                                      | $\vdash$     | Н               |
| <u> </u> | 22       | 1              | 1        | ٠.,      | ⊢                                   | ļ   | -        | ⊢          | -        | -                                      |     | <u> </u> | 72       | $\longmapsto$ | _      | _        | -            | ├   | ⊢        | -                                      |              | $\vdash$        |
| <u></u>  | 23       | 1              | 1        | 1        | <u> </u>                            | -   | <u> </u> | ├          | ╁        | -                                      | 1   |          | 73       | Н             |        | _        | -            | ⊢   | ⊢        | -                                      | -            | Н               |
|          | 24<br>25 | ├              | ├-       |          | ┝                                   |   | ⊢        | ├-         | ╁        | $\vdash$                               |     |          | 74<br>75 | $\vdash$      | _      | _        | -            | ┝   |          | <del> </del>                           | H            | $\dashv$        |
| <u> </u> |          | ├              | $\vdash$ | $\vdash$ | ├                                   | -   | ⊢        | ├          | ╁        | -                                      | 1   |          | 76       | Н             |        |          | ┝╌           |   | -        | $\vdash$                               | ⊢            | $\vdash \vdash$ |
|          | 26<br>27 | ├              | ├        | -        | ⊢                                   | -   | -        | ┢          | ╁        | -                                      | } ; |          | 77       | $\vdash$      | _      | _        | ⊢            | ┝   | ├        | ┝                                      | ┢            | $\vdash$        |
|          | 28       | <del> </del>   | ┢        | -        | ┢                                   | -   | ├        | ┢          | $\vdash$ |  | 1   |          | 78       | $\vdash$      |        | _        | ┢            | ┢   | ┝        | $\vdash$                               | ┢            | $\vdash \dashv$ |
|          | 29       | ┢              | -        | $\vdash$ | ┢                                   | ├-  | $\vdash$ | ⊢          | ╂~       |  | 1   |          | 79       | H             | _      | $\vdash$ | -            | ├   | ┢        | $\vdash$                               | ┢            | H               |
|          | 30       | -              | -        | $\vdash$ | ┝                                   | $\vdash$  | $\vdash$ | ┢          | $\vdash$ | -                                      | 1   | <u> </u> | 80       | H             | -      | -        | $\vdash$     |   | Н        | -                                      | ┢╾           | Н               |
| -        | 31       | ┢              | -        |          | -                                   | $\vdash$  | $\vdash$ | ┢          | H        | -                                      | 1   |          | 81       | Н             | _      | -        | -            | ┢   | ┢        | ┢                                      | <del> </del> | H               |
|          | 32       | <u> </u>       | $\vdash$ | -        | $\vdash$                            | $\vdash$  |          | ╁╌         | 1        |  | 1   |          | 82       | $\Box$        | _      | Η-       | H            |   | H        | _                                      | T            | $\Box$          |
|          | 33       | ╁─             |          |          |                                     |   | -        | $\vdash$   | T        |  | 1   |          | 83       | П             | _      | -        | T            | t   | H        | T                                      | T            | П               |
| <u> </u> | 34       | ┢              | $\vdash$ |          |                                     | _   | Т        | T          | t        |  | 1   |          | 84       |               |        |          |              |   |          | 1                                      | Т            | П               |
|          | 35       | Ė              | _        | Г        | Г                                   |   |          | Γ          |          | Г                                      | 1   |          | 85       | $\Box$        |        | Т        | Γ            |   |          | T                                      | Г            | П               |
|          | 36       |                |          | Г        | Г                                   | T   |          | Γ          | 1        |  | 1   |          | 86       | П             |        |          |              |   |          |  |              |                 |
|          | 37       | Г              | Ι_       |          |                                     |   |          | Γ          | T        | Γ                                      | 1   |          | 87       | П             |        |          |              |   |          |  |              |                 |
|          | 38       |                |          |          |                                     |   |          | Г          |          |  | ]   |          | 88       |               |        |          | L            | L   |          |  |              |                 |
|          | 39       |                |          |          |                                     |   |          | Г          |          |  | ]   |          | 89       |               |        |          |              |   |          |  |              |                 |
|          | 40       |                |          |          |                                     |   |          |            |          |  |     |          | 90       |               |        |          |              |   |          |  |              |                 |
|          | 41       |                |          |          |                                     |   |          | Ĺ          |          |  | ]   |          | 91       |               |        |          | $\Box$       | 匚   |          |  |              |                 |
|          | 42       |                |          |          |                                     |   |          |            |          |  | ]   |          | 92       |               |        |          |              |   |          | 匚                                      |              | $\Box$          |
|          | 43       |                |          |          |                                     |   |          | L          |          |  | ]   |          | 93       | Ш             |        |          |              | <u> </u>  | L        | _                                      | L            |                 |
|          | 44       | L              | L        |          | <u> </u>                            | oxdot   | L.       | _          |          |  |     |          | 94       | Ш             |        | <u> </u> |              | $oxed{oxed}$  | <u> </u> | $oxed{oxed}$                           | L            | Ш               |
| <u></u>  | 45       | _              | _        |          |                                     | Ŀ   | L        | $\vdash$   | L        | <u> </u>                               | 1   | ļ        | 95       | Ш             |        | L        | L_           | Ļ   | <u> </u> | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | <u>L</u>     | Ш               |
|          | 46       |                | <u> </u> | <u> </u> |                                     | <u> </u>  | _        | $\vdash$   | 1_       |  | 1   | <u> </u> | 96       | Ш             |        | L        | $oxed{oxed}$ | $ldsymbol{f eta}$   | 匚        | ļ_                                     | <u></u>      | Ш               |
| <u></u>  | 47       | <u> </u>       | L        | _        | L                                   | L.  | <u> </u> | L          | 1        | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | 1   | <u> </u> | 97       | Ш             |        | <u> </u> | <u> </u>     | <u> </u>  | L        | <u> </u>                               | <u> </u>     | Ш               |
| <u></u>  | 48       | <del> </del> _ |          | _        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ļ   | L        | $\vdash$   | ↓_       | 1_                                     | 1   |          | 98       | Ш             |        | L        | <u> </u>     | $\vdash$  | ┞_       | <del> </del>                           | ـ            | $\sqcup$        |
| <u></u>  | 49       | ┞              | <u> </u> | ļ        | <u> </u>                            | <u> </u>  | <u> </u> | ┞_         |          | 1                                      | 1   | L        | 99       | Ш             | _      | <u> </u> |              | _   | ┞        | ⊢                                      | ╙            | Ш               |
| i        | 50       |                | <u> </u> | <u>.</u> | L_                                  | <u> </u>  | 乚        |            | L        | <u>L</u>                               | ]   | Щ        | 100      |               |        | L_       | <u> </u>     | <u> </u>  | <u> </u> | L                                      | L_           | Ш               |

| Cla      | aim            | Date         |  |                                     |          |  |          |          |  |  |  |  |
|----------|----------------|--------------|--|-------------------------------------|----------|--|----------|----------|--|--|--|--|
|          |                |              |  |                                     |          |  |          |          | -  |  |  |  |
| Final    | Original       |              |  |                                     |          |  | ,        |          |  |  |  |  |
|          | 51<br>52       |              |  |                                     |          |  |          |          |  |  |  |  |
|          | 52             |              |  |                                     |          |  |          |          |  |  |  |  |
|          | 53             |              |  |                                     |          |  |          |          |  |  |  |  |
|          | 54             |              |  |                                     |          |  |          |          |  |  |  |  |
|          | 54<br>55       |              |  |                                     |          |  |          |          |  |  |  |  |
|          | 56             |              |  |                                     |          |  |          |          |  |  |  |  |
|          | 57             |              |  |                                     |          |  |          |          |  |  |  |  |
|          | 58             |              |  |                                     |          |  |          |          |  |  |  |  |
|          | 59             |              |  |                                     |          |  |          |          |  |  |  |  |
| L        | 60<br>61       |              |  |                                     |          |  |          |          |  | <u> </u>   |  |  |
| <u> </u> | 61             | _            |  |                                     |          |  |          |          |  | L.   |  |  |
| <u> </u> | 62             |              | _  |                                     |          |  |          |          |  | L.   |  |  |
|          | 63             |              |  |                                     |          |  |          |          |  |  |  |  |
| $\vdash$ | 64             | $\vdash$     |  | Ш                                   |          | _  |          | _        | $\vdash$   | <u> </u>   |  |  |
| <u> </u> | 65<br>66       | $\vdash$     |  | _                                   |          | Щ  | _        |          |  | _  |  |  |
| <u> </u> | 65             | _            |  |                                     |          | _  |          |          | -  | H  |  |  |
| <u> </u> | 67             | -            |  | $\vdash$                            |          | _  | -        |          | -  | -  |  |  |
|          | 68<br>69       | -            | _  | $\vdash$                            | $\vdash$ |  | _        | -        | -  |  |  |  |
| -        | 70             |              |  | -                                   | _        | -  | _        | _        | _  | -  |  |  |
|          | 70             | H            |  |                                     | _        | -  | _        |          | <u> </u>   | -  |  |  |
| <u> </u> | 71<br>72       | ┝            | -  | -                                   |          |  |          |          | ┝  |  |  |  |
|          | 73             | -            |  | $\vdash$                            |          | -  | $\vdash$ |          |  | -  |  |  |
|          | 73<br>74<br>75 | -            | $\vdash$   | $\vdash$                            |          |  |          |          | <del>                                     </del> |  |  |  |
|          | 75             | -            | Н  | -                                   |          |  | -        |          |  |  |  |  |
|          | 76             |              |  | -                                   |          |  |          |          |  |  |  |  |
|          | 76<br>77       |              |  | Г                                   |          |  |          |          |  |  |  |  |
|          | 78             | -            |  |                                     |          |  |          |          |  |  |  |  |
|          | 79             |              |  | Г                                   |          |  |          |          |  |  |  |  |
|          | 80             |              |  |                                     |          |  |          |          |  |  |  |  |
|          | 81             |              |  |                                     |          |  |          |          |  |  |  |  |
|          | 82<br>83       |              |  |                                     |          |  |          |          | 匚  |  |  |  |
|          | 83             |              |  | Ĺ                                   |          |  |          |          | 匚  | $\Box$   |  |  |
|          | 84<br>85       |              |  | $oxed{\Box}$                        |          |  |          |          | 匚  |  |  |  |
|          | 85             |              |  | $oxed{oxed}$                        |          | L  | L        | L        | <u> </u>   | <u> </u>   |  |  |
|          | 86             | <u> </u>     | $oxed{oxed}$                                     | <u> </u>                            | _        |  | <u> </u> |          | <u> </u>   | _  |  |  |
| <u></u>  | 87<br>88       | <u> </u>     |  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |          | _  | _        | <u> </u> | <u> </u>   | _  |  |  |
| <u></u>  | 88             | Ь            | <b> </b>   | $\vdash$                            | <u> </u> |  | <u> </u> | L        | L.   | $\vdash$   |  |  |
| ļ        | 89             | <u> </u>     | <u> </u>   | $\vdash$                            | <u> </u> | <b>—</b>   | <u> </u> | -        | <u> </u>   | -  |  |  |
|          | 90             | ├            | -  | -                                   | ļ        | <u> </u>   |          |          | <u> </u>   | -  |  |  |
| <u> </u> | 91             | <b> </b>     |  | H                                   | _        | $\vdash$   | <u> </u> | -        | -  | -  |  |  |
| <u> </u> | 92             | $\vdash$     |  | -                                   | _        | ├-   | -        | $\vdash$ | $\vdash$   | $\vdash$   |  |  |
|          | 93<br>94       | <del> </del> | $\vdash$   | $\vdash$                            | ⊢        | <u> </u>   | $\vdash$ | ├        | -  | ┝  |  |  |
|          | 95             | ├-           | <del> </del>                                     | $\vdash$                            |          | $\vdash$   | $\vdash$ | $\vdash$ | ╁╾   | ⊢  |  |  |
| -        | 96             | <del> </del> |  | ├-                                  | ┝        |  | ├─       | $\vdash$ | $\vdash$   | $\vdash$   |  |  |
| -        | 97             | $\vdash$     | $\vdash$   | -                                   | $\vdash$ | ├  | $\vdash$ | $\vdash$ | -  | ⊢  |  |  |
| $\vdash$ | 98             | $\vdash$     | <del>                                     </del> | ┪                                   | ├        | <del>                                     </del> | ┝╌       | $\vdash$ | 1-   | $\vdash$   |  |  |
|          | 99             | $\vdash$     | $\vdash$   |                                     | ┢        | $\vdash$   | ┢╾       | ┢        | ┢  | $\vdash$   |  |  |
|          | 100            | $\vdash$     | ╁  | ╁                                   | ┢        | 1  | $\vdash$ | ┢        | $\vdash$   | <del>                                     </del> |  |  |

| Cla      | aim                      | Date     |          |            |              |          |  |          |  |          |  |  |
|----------|--------------------------|----------|----------|------------|--------------|----------|--|----------|--|----------|--|--|
|          |                          |          |          |            |              |          |  |          |  | $\neg$   |  |  |
| Final    | Original                 |          |          |            |              |          |  |          |  |          |  |  |
| ΞĒ       | )rić                     |          |          |            |              |          |  |          |  |          |  |  |
|          |                          |          |          |            |              |          |  |          |  | _        |  |  |
|          | 101<br>102               |          |          | Ш          |              |          |  |          |  |          |  |  |
|          | 102                      | Ш        |          | _          |              |          |  |          |  | _        |  |  |
|          | 103                      |          |          |            |              | _        |  |          | -  | _        |  |  |
|          | 104<br>105               |          |          | _          |              |          |  |          |  |          |  |  |
|          | 105                      |          |          | _          | _            |          |  | Ш        | -  | $\dashv$ |  |  |
|          | 106<br>107               | -        |          | $\vdash$   |              |          | _  | _        | -  | $\dashv$ |  |  |
|          | 108                      |          | -        | $\vdash$   | -            |          | -  |          | -  | $\dashv$ |  |  |
|          | 109                      | $\vdash$ |          | H          |              | _        |  |          |  | $\dashv$ |  |  |
|          | 110                      |          |          | -          | _            | Ė        | -  |          | $\vdash$   | $\dashv$ |  |  |
|          | 111                      |          | _        | $\vdash$   |              |          |  | _        | Н  | $\dashv$ |  |  |
|          | 112                      |          |          | $\vdash$   |              |          |  |          | Н  |          |  |  |
|          | 112<br>113               |          | _        |            |              |          |  |          |  |          |  |  |
|          | 114<br>115<br>116        |          |          |            |              |          |  |          |  |          |  |  |
|          | 115                      |          |          |            |              |          |  |          |  |          |  |  |
|          | 116                      |          |          |            |              |          |  |          |  |          |  |  |
|          | 1117                     |          |          |            |              |          |  |          |  |          |  |  |
|          | 118                      |          |          |            |              |          |  |          |  |          |  |  |
|          | 118<br>119<br>120<br>121 |          |          |            |              |          |  | •        |  |          |  |  |
|          | 120                      |          |          |            |              |          |  |          |  |          |  |  |
|          | 121                      | L        |          |            |              | L        |  |          |  | Ш        |  |  |
|          | 122<br>123               | L        | L        |            |              |          | <u> </u>   |          | $ldsymbol{ld}}}}}}$ | Щ        |  |  |
|          | 123                      |          |          |            |              |          | _  | _        |  | Щ        |  |  |
|          | 124                      | <u> </u> |          | _          | _            |          | <u> </u>   |          | _  | $\Box$   |  |  |
|          | 125<br>126<br>127        |          |          | _          | <u> </u>     | _        | <u> </u>   | <u> </u> | <u> </u>   | Н        |  |  |
|          | 126                      |          |          | <u> </u>   | <u> </u>     |          |  | <u> </u> | _  | $\dashv$ |  |  |
|          | 127                      | H        |          | <u> </u>   | ┝            | _        | <u> </u>   | <u> </u> | _  | -        |  |  |
|          | 128<br>129               | -        |          | -          | -            | -        | _  | -        | -  | $\vdash$ |  |  |
| _        | 129                      | -        |          | -          | <del> </del> | -        | ⊢  | ┝        | ⊢  | $\vdash$ |  |  |
|          | 130<br>131               | _        |          | -          | -            | -        | -  | ┝        | -  | Н        |  |  |
| -        | 132                      |          |          | -          |              | ┢        | $\vdash$   | ┢        | $\vdash$   | $\vdash$ |  |  |
|          | 133                      | $\vdash$ | _        | ┢          | ┝            | ⊢        |  | $\vdash$ | $\vdash$   | $\vdash$ |  |  |
|          | 134                      | $\vdash$ | H        | $\vdash$   | Ι            | $\vdash$ | <del>                                     </del> | $\vdash$ |  | H        |  |  |
|          | 135                      | $\vdash$ | Н        | $\vdash$   | _            | $\vdash$ | t  |          | -  | $\vdash$ |  |  |
|          | 136                      | T        | Г        | m          | $\vdash$     | $\vdash$ |  | T        |  | $\vdash$ |  |  |
|          | 136<br>137               |          |          |            | Ι-           |          |  |          |  |          |  |  |
|          | 138                      |          | Г        | Г          |              |          | Г  | Γ        | $\Box$   | П        |  |  |
|          | 139                      |          |          |            |              |          |  |          |  |          |  |  |
|          | 140                      |          |          |            |              |          |  | L        |  |          |  |  |
|          | 141                      |          |          |            |              |          |  |          |  |          |  |  |
|          | 142                      | _        |          | L          |              |          | 匚  |          |  | Ш        |  |  |
| L        | 143                      |          |          |            |              | 匚        |  |          |  |          |  |  |
|          | 144                      |          | L.       | <u> </u>   | _            |          |  | _        | L_   | Ш        |  |  |
| ļ        | 145                      |          | <u> </u> | <u> </u>   | <u> </u>     | <u> </u> | L  | <u> </u> | $oxed{oxed}$   | Ш        |  |  |
| L        | 146                      | <u> </u> | L        | Ь          |              | <u> </u> | <u> </u>   | <u> </u> | $\vdash$   | Щ        |  |  |
| <u> </u> | 147                      | <b>—</b> | _        | <b>L</b> _ | <u> </u>     | <u> </u> | <u> </u>   | <u> </u> | $\vdash$   | $\sqcup$ |  |  |
| <u> </u> | 148                      | <u> </u> | $\vdash$ | -          | <u> </u>     | <u> </u> | ⊢  | ₽-       | <u> </u>   | Щ        |  |  |
| ├─       | 149                      |          | ⊢        | ├-         | ├-           | <u> </u> | $\vdash$   | _        | _  | $\vdash$ |  |  |
| L        | 150                      | L_       | ட        | <u> </u>   | L_           |          | Щ  | <u> </u> | L.   |          |  |  |